

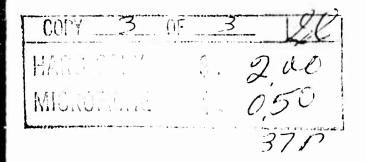
NEW YORK UNIVERSITY

School of Engineering and Science RESEARCH DIVISION

University Heights, Bronx 53, N. Y.

Department of Meteorology and Oceanography
Geophysical Sciences Laboratory Report No. 65-4

Wave Spectra Estimated from Wave Records Obtained by the OWS WEATHER EXPLORER and the OWS WEATHER REPORTER (III)



by

L. Moskowitz

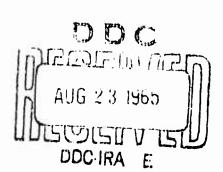
W. J. Pierson, Jr.

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Technical Report Prepared for Office of Naval Research

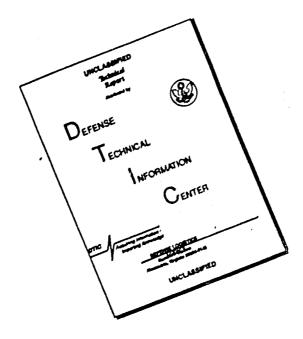
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June 1965



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Introduction

As a part of the problem of developing numerical wave forecasting procedures for the North Atlantic Ocean, selected sequences of the weather maps for the North Atlantic for which wave data were known to be available were studied in detail for the five year period beginning in April 1955 and ending in March 1960. Data from a hurricane in September 1961 have also been analyzed. Certain dates and times of observations were selected for a variety of reasons for study. For these dates and times, the National Institute of Oceanography provided copies of the wave records that were obtained by the OWS Weather Explorer and by the OWS Weather Reporter.

In total, about 800 wave records were provided, and a complete spectral analysis has been made for 390 of these records.

This report is the third and final report (Moskowitz, Pierson, and Mehr, 1962, 1963) to present in tabular and graphical form the results of these analyses. The total number of spectra given is 66. The spectra presented in this volume, labeled JHC 194-219, represent the last of the spectra used in the development of a new spectrum for fully developed seas (Pierson and Moskowitz, 1964). Additional spectra are presented (Bretschneider et al, 1962) which were used but published elsewhere for another purpose. These additional spectra are taken from the above reference and shown on two separate sheets without graphs. Chronologically, they should be placed before the group of spectra denoted by JHB 1-32 which appeared in Vol. II. Volumes I and II will soon be reissued under one cover. The confidence limits and graphical tabulations of these appear in the reference cited above. Beneath each column of spectral values are the total variance (ft)²,

significant wave height (ft), total degrees of freedom, and the average period. These spectra are compatible with all the other published spectra since the analysis procedures were exactly the same.

Analysis procedures

The original wave records varied in length, but almost all of this third set were 15 minutes long. The crest to trough heights of the highest waves in a particular record (uncorrected for calibration effects) varied from a few feet to more than 60 feet in the complete set of records. Bounds were set on each record just above the highest wave crest and just below the lowest wave trough, and the records were read to an accuracy of one part in a thousand (nominally) over this range at an interval of 1.5 seconds throughout the record. Thus a 15 minute record was reduced to a time series of 600 points. Where gaps or irregularities occurred, the records were smoothed by hand as accurately as possible.

The time series of 600 points was then analyzed on the CDC 1604 so as to estimate the energy spectrum of the waves at 60 points over the frequency range from zero to 0.333 cycles per second by means of the procedures given by Tukey (1949) as explained in detail by Blackman and Tukey (1958). The smoothing operation that was used to go from L tu U in the equations of Blackman and Tukey was

(1)
$$U_{h} = 0.25L_{h-1} + 0.50L_{h} + 0.25L_{h+1}$$

with suitable corrections at the ends of the range.

The spectral estimates so obtained still had to be corrected for the response of the shipborne wave recorder (Tucker, 1956) and for the introduction of noise in both the original record and in the digitization procedure. The calibration of the shipborne recorder depends on the

ship, and the calibration curves were provided by Mr. D. E. Cartwright for this purpose. The calibration curve for the Weather Explorer is given by Table 1. The calibration curve for the Weather Reporter is given by Table 2. After May 10, 1958, the Weather Reporter made all of the wave observations.

As in another investigation (Bretschneider et al (1962)), it was found that the application of the above calibration curves to the spectra that were originally computed resulted first in a decrease and then a rapid increase in the spectra a high frequencies due to the presence of noise and other irregularities (possibly from nonlinear effects in the original wave records) at the high frequency end of the spectrum. To eliminate this effect, the last part of the spectrum was smoothed by a three point running weighted mean (0.25, 0.50, and 0.25) and then the last ten values were averaged. In the first report of this series, this weighting was carried out as described in that report. The changes in this report should be noted. For comparison the first ten spectra of this report are repeats of the earlier spectra. There is essentially no difference. This average was treated as white noise and subtracted from all spectral estimates. When the reduced values were multiplied by the appropriate calibration curves, the usual result was a fairly smooth spectrum that decreased regularly toward zero values at high frequency. By such a procedure some of the spectral values at high frequency will be negative. These values were automatically set equal to zero in the rest of the computations.

Even with these corrections, there were a few spectra that still became exceptionally large for frequencies greater than about 0.25 cycles per second. This behavior was apparently caused by the

original quality of the record and not by the digitization procedure.

These spectra were further modified by arbitrarily setting the calibration curve equal to one above a certain frequency that was selected by inspection of each spectrum.

The result of such a sequence of computations should yield fairly reliable spectral estimates for frequencies ranging from zero to 0.25 cycles per second, but the values at high frequencies should not be used to decide on any features of the high frequency end.

Sample parameter estimates

The spectral estimates that resulted from this sequence of operations were then processed further to obtain some additional useful information. Let U_h^* , for $h=0,1,2,\cdots,60$, represent the spectral estimates (after subtraction of the noise and multiplication by the calibration for the shipborne recorder) in terms of the resolution of the variance of the wave record into frequency intervals. The following quantities were then also computed and tabulated with each spectrum.

(2) CORR VAR = corrected variance =
$$\Sigma U_h^*$$

(3) SIG HGT =
$$\frac{1}{H_{\frac{1}{3}}}$$
 = 2.83 (2 ΣU_h^*)^{1/2}

(4) AVER T =
$$T = [\Sigma U_h^* / \Sigma f_h^2 U_h^*]^{1/2}$$

(5) TOTAL DF = Total degrees of freedom =
$$10 \left[\sum U_h^* \right]^2 / \left[\sum U_h^{*2} \right]$$
 (for 600 points, 60 lags; i.e., 20 degrees of freedom per spectral estimate)

The confidence intervals on the corrected variance and on the significant height are given by

Upper 95% on CORR VAR = $(10^{+1/\sqrt{\text{TDF}}})$ CORR VAR (6)

Lower 5% on CORR VAR = (10 $^{-1/\sqrt{\mathrm{TDF}}}$) CORR VAR and by

Upper 95% on
$$\frac{-}{H_{\frac{1}{3}}} = 10^{+1/2} \sqrt{\text{TDF}} \ \overline{H}_{\frac{1}{3}}$$

(7) Lower 5% on $\overline{H}_{\frac{1}{3}} = 10^{-1/2} \sqrt{\text{TDF}} \ \overline{H}_{\frac{1}{3}}$

in terms of the total degrees of freedom (TDF) to a high degree of accuracy since the total degrees of freedom are large.

The corrected variance, the significant height, and the total degrees of freedom are relatively insensitive to change in the noise level and in the high frequency behavior of the spectrum. However, the average period can properly be viewed with caution.

The winds at the ship at the time of observation are also given to the nearest five knots as read directly from weather maps when available.

Explanation of tables and graphs

The body of this report consists of supplementary tables, of tables that give the appropriate results for each of the original wave records, and of graphs of each of the estimated spectra along with the confidence intervals on the spectra.

The supplementary tables consist of Tables 1 through 5.

Tables 1 and 2 have been described above.

Table 3 gives either the on station position of the ship,

A. I, J, or K, or the latitude and longitude of the ship if it is going
on or off station. The speed and direction of the ship are given.

Position A corresponds to 62°N, 33°W.

Position I corresponds to 59°N, 19°W.

Position J corresponds to 52.5°N, 20°W.

Position K corresponds to 45°N, 16°W.

If the record was not 15 minutes long, less than 600 points were read. For these records, Table 4 gives the actual number of points used and the corrected total degrees of freedom. A correction to the upper and lower confidence limits, which would be quite small, would also be needed to be exact.

Table 5 consists of date, time and wind speed for each record of the three reports. The wind speeds were extracted from the logs of the weather ships and are recorded to the nearest knot. These wind speeds should be considered to be the most accurate available for the data at hand.

Spectral tabulations

A tabulated spectrum can be interpreted as follows:

- la) Supplementary data for each spectrum consist of the date, hour, wind speed, total degrees of freedom, average period, significant height, corrected variance, noise level, and record number. The confidence limits for the height according to equation (7) are given. A zero wind speed represents an unreported wind speed at the time of the observation as read from synoptic charts.
- 1b) In the first column, the spectral lag numbers (H) are given.
- 2) In the second column (FRE) the frequency according to the equation f = H/180 (sec⁻¹) is given.

- 3) In the third column (UNIT = FT^2), the spectrum as computed from the original data is given in units of (ft)².
- 4) In the fourth column (FILTERED), a smoothing operator for H > 40 is applied. It is actually

$$F_H = 0.25U_{H-1} + 0.50U_H + 0.25U_{H+1}$$

(where F = Filtered, and U = Original Tukey Estimate).

- 5) In the fifth column (LESS NOISE), the noise level shown at the top is subtracted from each estimate.
- In the sixth column (CORR FT 2), the LESS NOISE column is multiplied by the calibration curve for the shipborne record according to either Table 1 or Table 2. If this column agrees with the previous column, at high frequencies, the calibration curve has been arbitrarily set equal to one to avoid extreme values at high frequency.
- 7) In the last two columns, the upper and lower 95% and 5% confidence bounds are shown.

The format has been changed so that the numbers will be larger and more legible.

Only the spectral values are given from the report by Bretschneider et al. (1962) so as to put all of the available data in one convenient reference.

The graphs of the spectra

The plot that accompanies the spectral tabulation shows the spectrum and the 95% and 5% confidence bounds. A histogram that can be plotted directly by the machine has been used to simplify the presentation. The asterisks represent the upper and lower bounds. The solid

portion represents the outline of the spectrum. The scale is chosen so that the highest 95% confidence value is at the top of the graph and the vertical axis of the coordinate system shows the spectral values for that spectrum in units of (feet)². The scales change with each spectrum and comparisons between spectra by means of the graphs should be made cautiously.

Availability on magnetic tape

The procedures used to carry out the spectral computations necessitate the use of the digitized wave records. If the spectra are to be computed only once this procedure is satisfactory. If further operations or recalculations of the spectra are to be performed, the use of the digitized wave records can be eliminated. The use of the raw spectra (shown in column three of the tabulated spectra) reduces the amount of input data considerably and hence, also speeds up the computer operations. The raw spectra of all the records presented in this report, the previous two reports, and the paper by Bretschneider et al (1962) are available on magnetic tape. For those who may find further use of the raw spectra, additional copies of the tape can be made available.

Acknowledgments

We wish to thank the National Institute of Oceanography of the United Kingdom for providing us with the wave records. Dr. J. Darbyshire sent some of the records to us from South Africa. Mr. D. E. Cartwright and Mr. L. Draper were most helpful in assembling other records at N. I. O. having them copied and forwarding the records to us. The records were digitized at Johns Hopkins University and at the Davidson Laboratory of Stevens Institute of Technology.

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- Tucker, M. J. (1957): A ship-borne wave recorder. <u>Trans. Inst.</u>
 Naval Arch., London, 98, 236.
- Tukey, J. W. (1950): The sampling theory of power spectrum estimates. Symposium on Applications of Autocorrelation Analysis to Physical Problems. Woods Hole, Mass., 13-14 June, 1949, pp. 47-67.

| Table 1. | Calibration | factors for | the Weather | Explorer. | (Vector A) |
|----------|-------------|-------------|-------------|-----------|------------|
| 1.0000 | | | | | |
| 1.0300 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.6157 |
| 1.3740 | 1.2452 | 1.1746 | 1.1399 | 1.1291 | 1.1343 |
| 1.1547 | 1.1870 | 1.2304 | 1.2845 | 1.3504 | 1.4277 |
| 1.5193 | 1.6241 | 1.7444 | 1.8828 | 2.0415 | 2.2243 |
| 2.4349 | 2.6765 | 2.9523 | 3.2725 | 3.6414 | 4.0714 |
| 4.5654 | 5.1490 | 5.8190 | 6.6136 | 7.5383 | 8.6338 |
| 9.9169 | 11.4459 | 13.2691 | 15.4245 | 18.0095 | 21.1086 |
| 24.8366 | 29.3522 | 34.8079 | 41.4485 | 49.5464 | 59.4548 |
| 71.5502 | 86.5947 | 105.1503 | 128.1186 | 156.7723 | 192.5202 |
| 237.3987 | 293.8682 | 365.1736 | 455.5306 | 570.2699 | 716.8705 |
| | | | | | |

| Table 2. | Calibration | factors for | the Weather | Reporter. | (Vector B) |
|----------|-------------|-------------|-------------|-----------|------------|
| | | | | | |
| 1.0000 | | | | | |
| 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.5755 |
| 1.3277 | 1.1908 | 1.1099 | 1.0630 | 1.0375 | 1.0257 |
| 1.0260 | 1.0350 | 1.0514 | 1.0633 | 1.1034 | 1.1384 |
| 1.1805 | 1.2280 | 1.2817 | 1.3424 | 1.4105 | 1.4871 |
| 1.5731 | 1.6684 | 1.7736 | 1.8918 | 2.0229 | 2.1704 |
| 2.3321 | 2.5169 | 2.7181 | 2.9479 | 3.2018 | 3.4899 |
| 3.8088 | 4.1715 | 4.5826 | 5.0408 | 5.5616 | 6.1512 |
| 6.8201 | 7.5845 | 8.4517 | 9.4439 | 10.5785 | 11.8784 |
| 13.3689 | 15.0856 | 17.0596 | 19.3530 | 22.0055 | 25.0761 |
| 28.6529 | 32.8206 | 37.6868 | 43.3807 | 50.0432 | 57.8872 |

Table 3. Position and speed of ship for each record.

| Rec | ord No. | Position | Heading | Speed (kts) |
|-----|---------|----------|---------|-------------|
| JHC | 194 | Ī | 215° | l |
| | 195 | I | 250° | 1 |
| | 196 | I | | Stopped |
| | 199 | I | 310° | 1 |
| | 201 | I | 320° | 1/2 |
| | 203 | I | 310 ° | 1/2 |
| | 204 | I | 340° | 2 |
| | 205 | Ī | 350° | 2 |
| | 208 | I | | Stopped |
| | 209 | I | | Stopped |
| | 212 | I | | Stopped |
| | 217 | I | 180 ° | 2 |
| | 218 | I | 250° | 1 |
| | 219 | I | 240 ° | 1 |

Table 4. Data on short records for which less than 600 points were available.

| Record No. | No. of points | Original TDF | Corrected TDF |
|------------|---------------|-----------------|---------------|
| JHC 197 | 586 | 197 | 192 |
| 198 | 590 | 192 | 189 |
| 200 | 590 | 209 | 206 |
| 202 | 590 | 193 | 190 |
| 206 | 490 | 166 | 136 |
| 207 | 420 | 169 | 118 |
| 210 | 500 | 199 | 166 |
| 211 | 510 | 221 | 188 |
| 213 | 570 | 1 87 | 178 |
| 214 | 540 | 198 | 178 |
| 215 | 570 | 171 | 162 |
| 216 | 590 | 203 | 200 |

Table 5. Master table of record numbers, dates, times and wind speeds extracted from the log of the weather ships. (Parts I and II)

| Reco | rd # | Date | Hour | Wind speed | Record# | Date | Hour | Wind speed |
|------|------|---------|------|---------------|---------|----------|------|---------------|
| DL | 1 | 19/1/58 | 0 | 28 | 30 | | 3 | 30 |
| | 2 | | 6 | 28 | 31 | 27/10/58 | 0 | 22 |
| | 3 | | 12 | 30 | 32 | | ò | 33 |
| | 4 | | 18 | 36 | 33 | | 15 | 34 |
| | 5 | 20/1/58 | 0 | 30 | 34 | 27/10/58 | 21 | 30 |
| | 6 | | 6 | 34 | 35 | 28/10/58 | 9 | 32 |
| | 7 | | 15 | 35 | 36 | | 15 | 33 |
| | 8 | | 21 | 30 | 37 | | 21 | 33 |
| | 9 | 21/5/58 | 0 | 38 | 38 | 29/10/58 | 3 | 32 |
| | 10 | | 6 | 37 | 39 | | 9 | 29 |
| | 11 | | 12 | 28 | 40 | | 18 | 30 |
| | 12 | | 18 | 28 | 41 | 30/10/58 | 0 | 27 |
| | 13 | | 21 | 26 | 42 | | 6 | 13 |
| | 14 | 22/1/58 | 3 | 20 | 43 | 17/1/59 | 6 | 25 |
| | 15 | 24/4/58 | 3 | 36 | 44 | 16/1/59 | 9 | 16 |
| | 16 | | 6 | 40 | 45 | | 15 | 22 |
| | 17 | | 12 | 40 | 46 | 7/11/59 | 21 | 40 |
| | 18 | | 15 | 35 | 47 | 7/11/59 | 12 | 38 |
| | 19 | | 18 | 35 | 48 | | 15 | 40 |
| | 20 | | 21 | 36 | 49 | | 18 | 35 |
| | 21 | 25/4/58 | 0 | 36 | 50 | 8/11/59 | 0 | 55 |
| | 22 | | 3 | 30 | 51 | | 6 | 56 |
| | 23 | | 6 | 33 | 52 | | 12 | 38 |
| | 24 | | 9 | 36 | 53 | | 15 | 37 |
| | 25 | | 12 | 43 | 54 | | 21 | 35 |
| | 26 | | 15 | 42 | 55 | 9/11/59 | 0 | 35 |
| | 27 | | 18 | 35 | 56 | | 6 | 40 |
| | 28 | | 21 | 33 | 57 | | 12 | 28 |
| | 29 | 26/4/58 | 0 | 30 | 58 | | 18 | 28 |

| Record # | Date | Hour | Wind speed | Record# | Date | Hour | Wind speed |
|----------|----------|------|---------------|---------|---------|------|---------------|
| 59 | 10/11/59 | 0 | 30 | 89 | | 12 | 25 |
| 60 | | 6 | 35 | 90 | | 15 | 25 |
| 61 | 11/9/61 | 21 | 7 | 91 | | 18 | 23 |
| 62 | 12/9/61 | 3 | 10 | 92 | | 21 | 23 |
| 63 | | 6 | 11 | 93 | 3/10/59 | 0 | 23 |
| 64 | | 9 | 11 | 94 | | 3 | 27 |
| 65 | | 12 | 10 | 95 | | 12 | 9 |
| 66 | | 15 | 11 | 96 | | 15 | 6 |
| 67 | 12/9/61 | 18 | 10 | 97 | 25/7/59 | 0 | 26 |
| 68 | | 21 | 8 | 98 | | 3 | 24 |
| 69 | 13/9/61 | 0 | 8 | 99 | | 6 | 25 |
| 70 | | 3 | 8 | 100 | | 9 | 25 |
| 71 | | 6 | 8 | 101 | | 12 | 27 |
| 72 | | 15 | 9 | 102 | | 15 | 27 |
| 73 | [none] | | | 103 | | 18 | 23 |
| 74 | 14/9/61 | U | 7 | 104 | | 21 | 23 |
| 75 | | 6 | 5 | 105 | 26/7/59 | 0 | 20 |
| 76 | 30/1/60 | 18 | 33 | 106 | 6/4/57 | 6 | 30 |
| 77 | | 21 | 42 | 107 | | 12 | 28 |
| 78 | 31/1/60 | 0 | 43 | 108 | | 15 | 30 |
| 79 | | 3 | 39 | 109 | | 18 | 28 |
| 80 | | 6 | 48 | 110 | | 21 | 26 |
| 81 | | 9 | 41 | 111 | | 0 | 21 |
| 82 | | 12 | 40 | 112 | 7/4/57 | 3 | 23 |
| 83 | | 15 | 40 | 113 | | 12 | 25 |
| 84 | | 18 | 36 | 114 | | 18 | 30 |
| 85 | | 21 | 40 | 115 | 8/4/57 | 3 | 30 |
| 86 | 1/2/60 | 0 | 35 | 116 | | 12 | 21 |
| 87 | | 6 | 12 | | | | |
| 88 | 2/10/59 | 9 | 23 | | | | |

| Record# | Date | Hour | Wind speed | Record # | Date | Hour | Wind speed |
|---------|---------|------|---------------|----------|----------|------|---------------|
| JH l | 17/1/59 | 12 | 35 | 28 | 29/1/59 | 0 | 40 |
| 2 | | 9 | 33 | 29 | | 6 | 35 |
| 3 | | 15 | 35 | 30 | | 12 | 34 |
| 4 | | 18 | 34 | 31 | | 18 | 38 |
| 5 | | 21 | 31 | 32 | 24/1/59 | 3 | 35 |
| 6 | 18/1/59 | 0 | 23 | 33 | | 6 | 38 |
| 7 | | 3 | 22 | 34 | 24/1/59 | 9 | 45 |
| 8 | 28/3/59 | 12 | 19 | 35 | | 12 | 30 |
| 9 | | 18 | 31 | 36 | | 15 | 32 |
| 10 | 29/3/59 | 0 | 37 | 37 | | 18 | 32 |
| 11 | | 6 | 37 | 38 | | 21 | 21 |
| 12 | | 12 | 27 | 39 | 25/1/59 | 0 | 16 |
| 13 | | 9 | 27 | 40 | | 3 | 19 |
| 14 | | 15 | 29 | 41 | 18/12/58 | 12 | 40 |
| 15 | | 18 | 27 | 42 | | 18 | 42 |
| 16 | | 21 | 27 | 43 | 19/12/58 | 0 | 40 |
| 17 | 30/3/59 | 0 | 29 | 44 | | 6 | 27 |
| 18 | | 3 | 27 | 45 | | 12 | 4 l |
| 19 | | 9 | 21 | 46 | | 18 | 39 |
| 20 | 27/1/59 | 18 | 22 | 47 | | 21 | 48 |
| 21 | 28/1/59 | 0 | 34 | 48 | 20/12/58 | 0 | 50 |
| 22 | | 6 | 27 | 49 | | 3 | 50 |
| 23 | | 9 | 40 | 50 | | 6 | 47 |
| 24 | | 12 | 50 | 51 | | 9 | 45 |
| 25 | | 15 | 48 | 52 | | 15 | 4 l |
| 26 | | 18 | 50 | 53 | | 21 | 47 |
| 27 | | 21 | 50 | 54 | 21/12/58 | 0 | 43 |

| Reco | rd# | Date | Hour | Wind speed | | Record | # Date | Hour | Wind speed |
|------|-----|----------|------|---------------|---|--------|----------|------|---------------|
| ЈНВ | l | 22/12/59 | 0 | 35 | | 17 | 25/12/59 | 0 | 43 |
| | 2 | | 6 | 40 | | 18 | | 6 | 21 |
| | 3 | | 12 | 45 | | 19 | | 12 | 19 |
| | 4 | | 15 | 40 | | 20 | | 15 | 25 |
| | 5 | | 18 | 50 | | 21 | | 18 | 25 |
| | 6 | | 21 | 52 | | 22 | | 21 | 22 |
| | 7 | 23/12/59 | 0 | 55 | | 23 | 26/12/59 | 0 | 37 |
| | 8 | | 3 | 52 | 1 | 24 | | 6 | 23 |
| | 9 | | 6 | 43 | | 25 | | 9 | 22 |
| | 10 | | 9 | 45 | | 26 | | 12 | 22 |
| | 11 | | 12 | 45 | | 27 | | 15 | 30 |
| | 12 | | 21 | 40 | | 28 | | 21 | 18 |
| | 13 | 24/12/59 | 3 | 37 | | 29 | 27/12/59 | 3 | 23 |
| | 14 | | 6 | 32 | | 30 | | 9 | 28 |
| | 15 | | 12 | 20 | | 31 | | 15 | 25 |
| | 16 | | 18 | 18 | | 32 | | 21 | 23 |

| Reco | rd # | Date | Hour | Wind speed | Record# | Date | Hour | Wind speed |
|------|------|----------|------|---------------|---------|---------|------|---------------|
| ЈНС | 1 | 23/11/56 | 12 | 20 | 31 | 8/6/55 | 3 | 22 |
| | 2 | | 15 | 32 | 32 | | 12 | 26 |
| | 3 | | 18 | 46 | 33 | | 15 | 25 |
| | 4 | | 21 | 41 | 34 | | 21 | 22 |
| | 5 | 24/11/56 | 0 | 40 | 35 | 9/6/55 | 0 | 17 |
| | 6 | | 3 | 38 | 36 | | 3 | 16 |
| | 7 | | 6 | 38 | 37 | | 6 | 26 |
| | 8 | | 9 | 40 | 38 | | 12 | 45 |
| | 9 | | 15 | 36 | 39 | | 18 | 42 |
| | 10 | | 18 | 35 | 40 | | 21 | 47 |
| | 11 | 25/11/56 | 0 | 40 | 41 | 9/4/55 | 0 | 45 |
| | 12 | | 3 | 42 | 42 | | 3 | 41 |
| | 13 | | 9 | 38 | 43 | | 6 | 35 |
| | 14 | | 12 | 35 | 44 | | 9 | 27 |
| | 15 | 19/9/55 | 3 | 21 | 45 | | 15 | 27 |
| | 16 | | 9 | 21 | 46 | | 21 | 22 |
| | 17 | | 15 | 17 | 47 | 9/3/58 | 3 | 18 |
| | 18 | | 21 | 17 | 48 | | 6 | 20 |
| | 19 | 20/9/55 | 3 | 21 | 49 | | 0 | 28 |
| | 20 | | 6 | 25 | 50 | 6/11/56 | 18 | 34 |
| | 21 | | 15 | 21 | 51 | 7/11/56 | 0 | 39 |
| | 22 | 21/9/55 | 0 | 19 | 52 | | 6 | 28 |
| | 23 | | 3 | 19 | 53 | | 9 | 28 |
| | 24 | | 12 | 27 | 54 | | 12 | 28 |
| | 25 | 7/6/55 | 0 | 19 | 55 | | 15 | 30 |
| | 26 | | 6 | 22 | 56 | | 21 | 32 |
| | 27 | | 9 | 22 | 57 | 8/11/56 | 0 | 32 |
| | 28 | | 14 | 20 | 58 | | 3 | 30 |
| | 29 | | 18 | 24 | 59 | | 6 | 18 |
| | 30 | | 21 | 25 | 60 | | 12 | 20 |

| Record # | Date | Hour | Wind speed | Record# | Date | Hour | Wind speed |
|----------|---------|------|---------------|---------|---------|------|---------------|
| JHC 61 | 19/6/56 | 0 | 20 | 91 | | 15 | 39 |
| 62 | | 9 | 15 | 92 | | 21 | 39 |
| 63 | | 14 | 20 | 93 | 22/3/56 | 3 | 37 |
| 64 | | 18 | 19 | 94 | | 9 | 19 |
| 65 | 20/6/56 | 0 | 20 | 95 | | 15 | 17 |
| 66 | | 3 | 18 | 96 | | 18 | 21 |
| 67 | | 6 | 19 | 97 | 3/11/55 | 18 | 28 |
| 68 | | 9 | 20 | 98 | 4/11/55 | 0 | 28 |
| 69 | | 12 | 19 | 99 | | 6 | 36 |
| 70 | | 18 | 15 | 100 | | 9 | 48 |
| 71 | 10/5/56 | 12 | 24 | 101 | | 12 | 50 |
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| 74 | | 3 | 43 | 104 | 5/11/55 | 3 | 35 |
| 75 | | 6 | 44 | 105 | | 6 | 32 |
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| 84 | 20/3/56 | 18 | 29 | 114 | | 21 | 23 |
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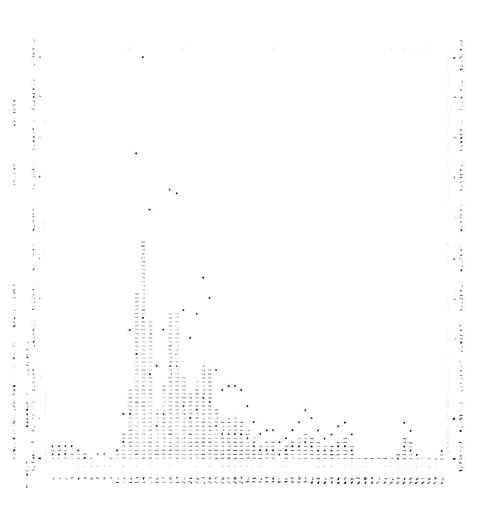
| Record # | Date | Hour | Wind speed | Record # | Date | Hour | Wind speed |
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| JHC 121 | 16/4/58 | 18 | 24 | 153 | | 12 | 40 |
| 122 | 17/4/58 | 0 | 23 | 154 | | 15 | 30 |
| 123 | | 6 | 23 | 155 | | 18 | 30 |
| 124 | | 12 | 22 | 156 | 6/6/59 | 0 | 40 |
| 125 | | 18 | 24 | 157 | | 3 | 41 |
| 126 | 18/4/58 | 3 | 18 | 158 | | 6 | 48 |
| 127 | | 6 | 24 | 159 | | 9 | 41 |
| 128 | | 12 | 25 | 160 | | 12 | 41 |
| 129 | | 18 | 28 | 161 | | 15 | 36 |
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| 131 | 19/4/58 | 3 | 32 | 163 | | 21 | 34 |
| 132 | | 9 | 30 | 164 | 7/6/59 | 3 | 25 |
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| 134 | | 21 | 23 | 166 | | 9 | 45 |
| 135 | 10/12/58 | 0 | 28 | 167 | | 12 | 43 |
| 136 | | 3 | 38 | 168 | | 15 | 36 |
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| 142 | | 21 | 36 | 174 | | 15 | 20 |
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| JHC 185 | 16/12/55 | 0 | 16 | 190 | | 9 | 0 |
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| 202 | 6/3/58 | 3 | 35 | 215 | 21/11/56 | 3 | 42 |
| 203 | | 6 | 35 | 216 | | 6 | 32 |
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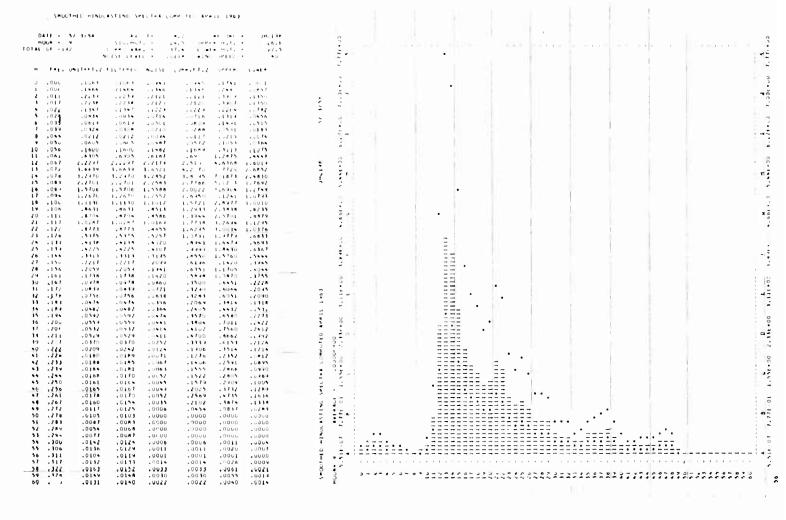
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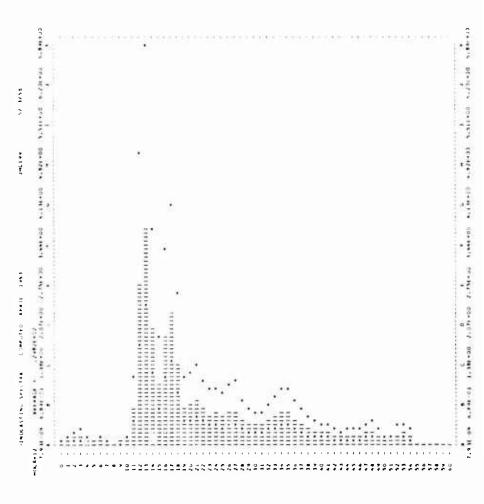
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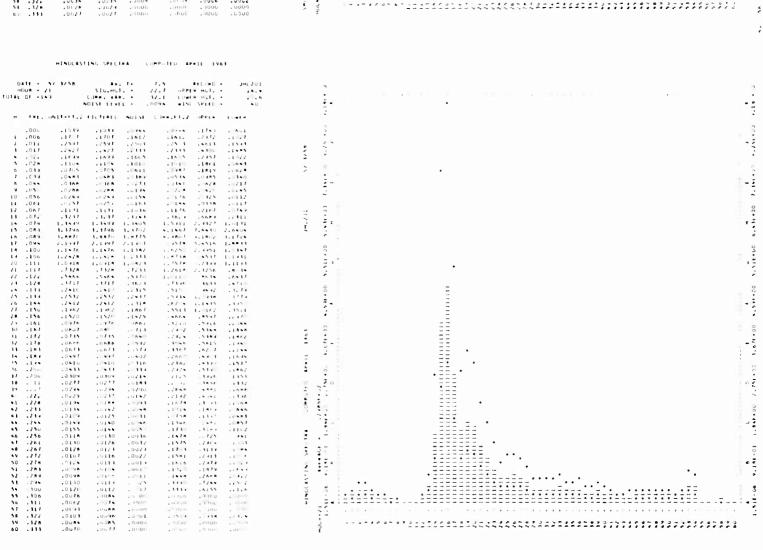
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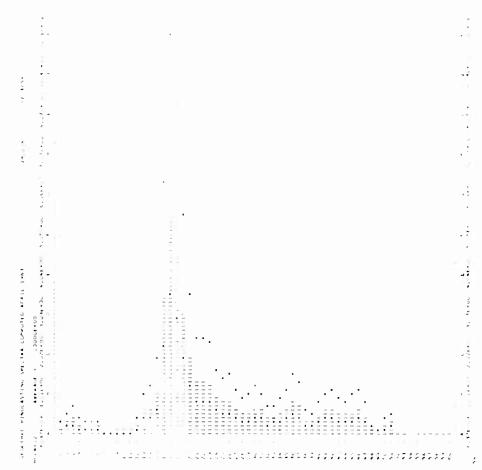
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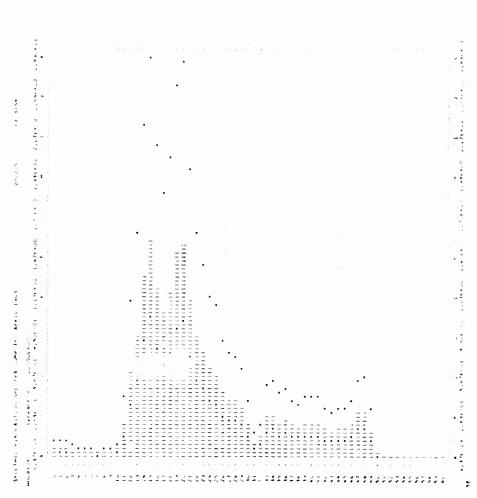
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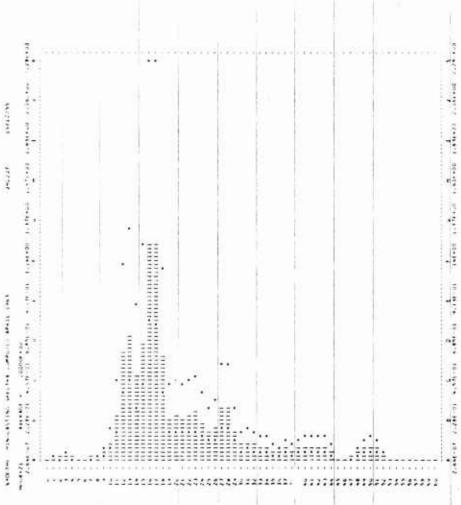


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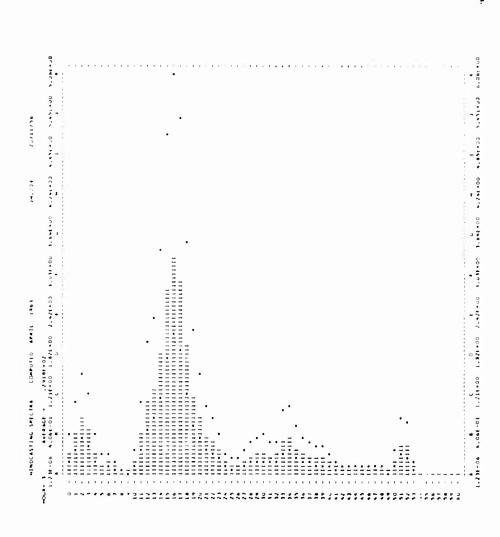
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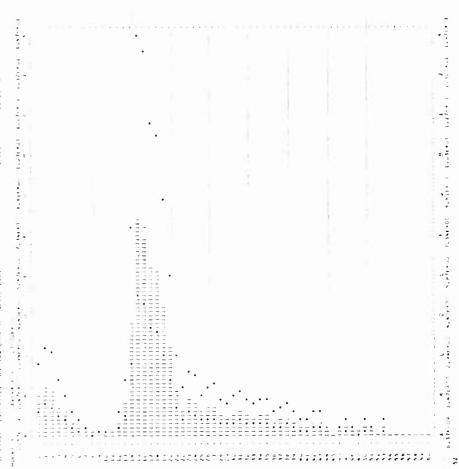
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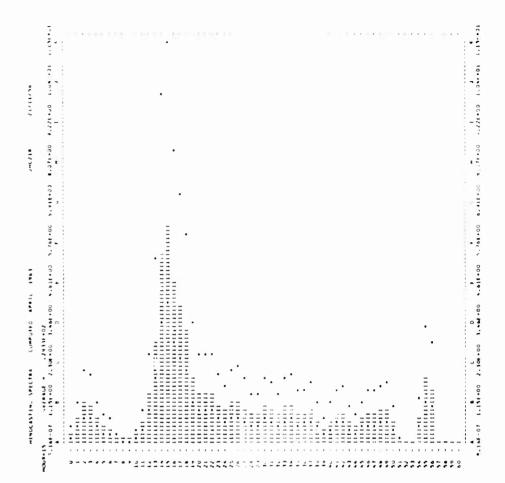
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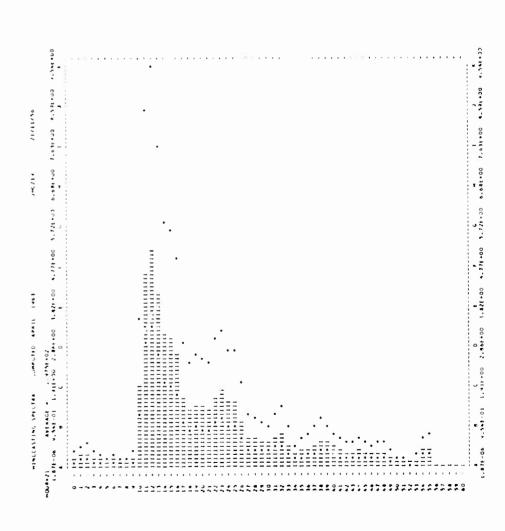
HINDEASTING SPECINA COMPOSED APRIL 1463

| D | ATE - / | 1/11/34 | 4. | . 1. | 6.4 | Pt JM1 | · // // 1 |
|-------|--------------|-----------|--------------|------------|-----------------|------------------|-----------|
| н | (3) . [| 1 | 114.HG | | | | - 15.3 |
| 10101 | 01 -/4 | . # | (#4, VA | | | e a mul. | ► D4 |
| | | | NOISE LEVE | | . 0144 14 | ou setel | - 12 |
| | | | | | | | |
| * | 741. | UNITED | 7 Fig Lenet. | 40151 | . DRA - 0 1 . 3 | | 1 /#1 # |
| | | | | | | | |
| 0 | .000 | . / * 1 * | . 2814 | | 1000 | | . 1 . 44 |
| 1 | .004 | . 65 70 | . 65 FO | . 6 . 2 1 | . 6 6 7 1 | 1.1514 | . • U #A |
| - 1 | .011 | 1.1554 | 1.1554 | 1.1401 | 8 . 8 4 1 7 | 4 - 104 - | . 1221 |
| , | .017 | 1.0612 | 1.0617 | 1 | 1.0464 | 1.4 17 | |
| • | .011 | | . 5 4 4 4 | . 4500 | .6500 | 1.1 # 81 | . 51 19 |
| • | .024 | .4276 | 1 42 74 | . 4128 | / * | . 1647 | . 1619 |
| • | .011 | . 7611 | 7411 | . / 444 | . 1901 | . 7357 | . 2 1 15 |
| ? | .014 | .1779 | 1279 | .1081 | . 1 . 0 5 | . 27 14 | . 0 **6 |
| • | .050 | .3141 | .0674 | .0527 | .0656 | 1104 | . 6414 |
| 10 | .030 | . 1676 | 1076 | . 1524 | .1741 | .1342 | .0481 |
| 11 | .001 | . 4 787 | . 4787 | .4634 | .3/19 | . 1212 | . 1110 |
| 12 | .047 | 1.2270 | 1.22.0 | 1.7177 | 1,1750 | 2.5599 | . 1755 |
| - 11 | .012 | 2.3477 | 1. 112 | 2.5124 | 7.9011 | 5.3472 | 1.0572 |
| 14 | .010 | 1.50 4 | | 1710 | 3. 42 82 | 10.0050 | 1. 9 109 |
| 13 | . 241 | 1.0900 | 1.0 160 | 1.0412 | 0.2519 | 11.3234 | 1.9808 |
| 1.6 | . L 8 4 | 1, 160 1 | 1.1601 | 1.5455 | 1.3592 | 6.3440 | 4.6498 |
| 1.7 | .044 | 2.5915 | 2.8015 | 2.8767 | 1.49+7 | 7.1601 | 1 135 |
| 1.0 | .100 | 2.3042 | 2.1042 | 2.2444 | 1,2757 | 6.0111 | 2.0151 |
| 14 | .104 | 1.7055 | 1.7654 | 1 50 / | 1.4002 | 1,10/1 | 1.7099 |
| 10 | . 111 | 9051 | | | 1.1717 | 2.5450 | . 0745 |
| 7.1 | .117 | . 6 654 | . 0 . 5 5 | 010 | 1.1973 | 2.5755 | . 4 5 4 7 |
| 11 | .174 | . 1525 | . 1525 | . / 1 / 8 | 1.3071 | 2.3007 | . 6645 |
| 2.5 | -12 4 | .5/86 | , 5786 | . 51.0 | 1.04 44 | 1. +142 | . 6687 |
| 14 | .111 | 1 * 1 | . 41 41 | 0 4 4 | | 1 6577 | .5727 |
| 25 | .11* | / | / | 546 | 1.1140 | 1.04.6 | . 1145 |
| 14 | | . 4 4 1 4 | ! . | . 4 3 2 6 | 1.1579 | 1.1342 | . / 1 / 1 |
| 17 | .110 | . 1440 | . 1460 | . 1117 | . 4114 | 1.80/4 | .6227 |
| 7.4 | .154 | .2472 | .1412 | . 2324 | . 7 . 0 4 | 1.401 | . 4443 |
| 7.9 | .161 | .2221 | 2771 | ./0/1 | . 7544 | 1.1914 | |
| 10 | . 167 | .2612 | .2412 | . 2464 | 1.0031 | 1.4541 | . 6 1 8 7 |
| 11 | . 1 70 | .2186 | .2146 | 7014 | . 4104 | 1.7149 | . 5 3 2 4 |
| 12 | .101 | .1077 | .1671 | . 1 - 70 - | . 1604 | 1.4022 | . 6337 |
| 34 | .104 | .1717 | .1732 | . 1585 | 1.0480 | 1.4316 | . 64 / 1 |
| 13 | . 94 | .1191 | 1191 | .10 | . 7869 | 1.99 15 | 1006. |
| 1.6 | . 200 | .1175 | .1125 | .0471 | , 84 16 | 1.5557 | .5117 |
| - 7 | . 200 | .1112 | -1112 | | , 4566 | 1.7601 | . 6041 |
| | .711 | .0701 | 10101 | | . 6 1 3 5 | 1.10/4 | 0 1 4 |
| 3.9 | .217 | .0451 | .0451 | .0104 | 0 1 1 | . 1 - 2 4 | . 2562 |
| •0 | .2.1 | .0110 | . 0346 | . 0 144 | . 6 1 3 8 | 1.1313 | . 1900 |
| 41 | . 724 | .0411 | . 0416 | | . 8416 | 1.5554 | . 55 /1 |
| +2 | 33 | .05+1 | .0544 | .0401 | . 8461 | 1.5575 | . 5389 |
| 4.5 | . 2 19 | .0140 | .0381 | .0211 | . 5748 | 1.0687 | . 16 92 |
| 44 | .245 | .0/11 | .0101 | .0153 | . 4440 | . 8776 | . / 45 / |
| 4.5 | .291 | .0.17 | . 0 110 | .0142 | . 6 1 4 7 | 1.16 #R | . • 0 • 1 |
| 44 | . 256 | .0354 | .0 *** | 1.40 | . 7877 | 1.5514 | . 5016 |
| • 7 | .261 | .0787 | 1 8 | 163 | . 1 ** 7 | 1.4645 | .5000 |
| 4.6 | .267 | .0105 | .0247 | . 6 1 5 0 | | 1.6404 | . 1664 |
| • 4 | .212 | .02+1 | .0716 | .0126 | . 11 45 | 1.6836 | .5023 |
| 50 | .274 | .0711 | -0712 | | . 5546 | 1.92.7 | . 1531 |
| 5.8 | . 783 | -0112 | .0152 | .000+ | -7414 | . 616. | . 6164 |
| 52 | .284 | .0117 | .0111 | . 6000 | .0000 | .0000 | .0000 |
| 33 | . 10u | .0171 | -0145 | .0000 | | .0000 | .0003 |
| 11 | .104 | -0451 | .01#4 | .0077 | . 6 150 | 1.2016 | 26 |
| 33 | . 141 | .0711 | .0224 | .0077 | 1.5167 | 1.3.94 2.8644 | 1.1568 |
| 37 | . 117 | .0117 | .0170 | .0000 | | .0000 | .0000 |
| 31 | .322 | .0004 | .0044 | . 0000 | | .0000 | .0000 |
| 5.4 | . 120 | .0103 | .0101 | . 0000 | | .0000 | .0000 |
| 60 | . 111 | .0111 | .0170 | .0000 | | .0000 | |
| | | | | | | | |



HINDLASTING SPECIES COMPUTED APRIL 1965

| | | 1/11/56 | 44. | | 1.1 | # (C () # D | | JHC 211 |
|------|---------|------------------|---|----------|----------|--------------------------|-----|------------|
| | Jun - 7 | | \$10.461 | | | UPPER HGI. | | 31.4 |
| 1014 | D# + 22 | | CORA, VAR HOLSE LEVE | | .0095 | LOUER HGT. WIND SPEED | • | 26.4 |
| | | | antse teas | | .0041 | #140 MEED | • | |
| * | *** | UN 1 • f 1 , 2 | #11 *********************************** | - NO S | E COMB.# | t.2 OPPER | 10 | wt A |
| O | .000 | .2210 | .2210 | .211 | | | | 347 |
| l l | .004 | . 7870 | .2420 | . 2 17 | | | | 715 |
| - 2 | .011 | . 1076 | . 1076 | - 2 9 A | | | | 4 U R |
| 1 | .017 | . 2 106 | . 2 106 | . 121 | | | | 994 |
| ; | .020 | .1207 | . 1 2 8 7 | .119 | | | | 159 |
| | .011 | | 1110 | .107 | | | | 06 |
| 1 | .017 | .0910 | .0910 | .041 | | | | 111 |
| 6 | .044 | .0/01 | .0781 | .066 | | | | *** |
| 4 | .050 | . 1 84 | . 1882 | - 1 /8 | | | | 1 16 |
| 10 | .014 | 1.6494 | 1.6994 | 1.664 | | | 1.2 | |
| 1.7 | .061 | 4.5736 | 4.0736 | 4.361 | | | 1.4 | |
| - 11 | .017 | 3.6017 | 1.4012 | 3.541 | | | 2.6 | |
| - ;; | .074 | 2.6707 | 1.6101 | 1.661 | | | | |
| 15 | .003 | | 2.4841 | 2.475 | | 55 5.6111 | 1.9 | 1 42 |
| 1.6 | .00 4 | 2.1169 | 2.1189 | 2.104 | | | 1.7 | |
| 1.7 | .044 | 1.7166 | 1.2166 | 1.707 | 1 1.61 | | 1 0 | |
| 1.0 | .100 | .9671 | . 9671 | . 457 | 0 1.10 | | | 105 |
| 14 | .106 | 1111 | . 8771 | . 467 | | | | 361 761 |
| 70 | .111 | . 1 144 | . 1144 | . 765 | | | | 102 |
| 22 | .177 | 6907 | . 0 4 1 7 | . 101 | | | 1.0 | |
| - 23 | .178 | . 4 / 1 / | | | | | 1.1 | |
| 24 | . 133 | . 6 804 | . 6 9 (- 4 | . 6 70 | | 23 2.15.5 | | 507 |
| 25 | .130 | .6179 | . 6174 | .608 | | | | • 12 |
| 10 | | . 4124 | . * 6 / * | . 4 14 | | | | 448 |
| 11 | 150 | 2110 | .2110 | . 223 | | | | 111 |
| 28 | .156 | .2(1) | .2611 | .111 | | | | 573 |
| 10 | -16/ | .1912 | .1.12 | | | | | -16 |
| 14 | .174 | . 1589 | 11500 | . 1 | | | | 142 |
| 17 | . 1 7 0 | .1624 | . 1624 | + 157 | | | | 311 |
| | . 161 | .0961 | ,090 | . 141 | | | | 210 |
| 14 | . 1 4 4 | .03.1 | -0517 | .0.1 | | | | 7 7 A |
| 15 | .194 | .0114 | .0554 | .0.5 | | | | 101 |
| 17 | .706 | .0622 | .6422 | . 0 | | | | 111 |
| 34 | . 214 | .0676 | .0676 | 0.51 | | | | 8 12 |
| 19 | .211 | .0501 | .0501 | .0.0 | | | | • • a |
| • 0 | . 124 | .0368 | .0119 | .0.1 | | | | 140 |
| • 1 | . 7 ? 0 | .6716 | .0285 | .019 | | | | 1 8 5 |
| 43 | .211 | .0770 | .0211 | .014 | | | | 014 |
| ** | . 255 | .0226 | .0716 | .012 | | | | 213 |
| 41 | . 250 | .0192 | .0190 | .009 | | | | 115 |
| 44 | . 254 | .0151 | | . 006 | 8 .25 | 116 .5141 | - 4 | 7 + 1 |
| 4.7 | .261 | .0156 | .0156 | .006 | | | | 214 |
| 4.6 | .261 | .015# | .0147 | .001 | | | | 950 |
| 4.4 | .1 ' | .0114 | .0171 | . 001 | | | | 210 |
| 50 | .201 | .0104 | .0109 | .001 | | | | 71+ 75# |
| 37 | .284 | .0095 | .0101 | .000 | | 119 .1161 | | 11 |
| 31 | . 795 | .0100 | .0104 | .000 | | | | |
| 54 | . 100 | .0120 | .0115 | .007 | 3 . 14 | | . / | 441 |
| 33 | . 106 | .0119 | .0111 | .001 | | | | 6 96 |
| 34 | . 111 | .0071 | .0094 | .000 | | 0000.000 | | 000 |
| 3.2 | . 117 | .0010 | .0077 | . 000 | | 000, 000 | | 000 |
| 11 | . 32.0 | ,0043 | .00#0 | .000 | | 200 .0000 | | 000 |
| 60 | . 3333 | .0064 | ,0011 | .000 | | 000 .000 | | 000 |
| | | | | | | | | - |



Data for High Wave Conditions Observed by the OWS "Wound

Wave Spectra Computed from Wave Records Obtained by to

| - 501 | 041 HOUR | 11 0 | 15 12 | 11 15 | 10 0 | 041 MOUR 14 4 | 14 12 | 18 10 | 17 0 0 | 17 1 | 1 MOG | CAT HOU | 17 12 | 11 n0uff | LF .F | 17 21 | 041 HOVE | 18 1 | 18 6 | 41 H-)UE | Dan Husa | 1.4 |
|----------|----------|-------------|---------|---------------|---------|------------------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-------------|---|-----------|-----------|-----------|----------|----------|----------|--------|
| 00 | | 0010 | 0/44 | C 100 | 0174 | .0/45 | 3174 | . 14 17 | 1411 | 1100 | /331 | 4.17 | 442 | 1071 | 11.14 | 2742 | * **/ ** | .6447 | 0414 | 2317 | 111 | |
| 1 00 | | 2111 | 0403 | .0014 | | .0427 | 3576 | . 1900 | 1121 | 120/ | 1401 | 41050 | 147. | 1501 | 17.01 | 31 1 | 15.5 | 2364 | 11 | 1255 | 6144 | |
| 01 | | 1741 | .0111 | 0 + 2 7 | . 30 % | .0114 | 3 12 | /344 | 3-78 | 2201 | 4337 | 10 | 1793 | 3411 | | 514. | -700 | ./1/1 | 7571 | 1 30 | 24. | 6.4 |
| 1 -1 | | -201 | 0.01 | 0 3 4 4 | 0199 | .0191 | .0101 | . 1 107 | 7124 | 3317 | +232 | 6.26 F | 4870 | 4764 | 21.47 | 1547 | 14.24 | . 2 2 4 1 | 134 | 16.14 | ×441 | |
| 0.7 | | 611. | 0.11 | .011/ C4/0 | 0.10 | 0111 | 0134 | 0114 | 1105 | 7 7 | 1174 | 6247 | | 5144 | 4104 | 4181 | 163 | 1567 | 3411 | | . 141 | |
| 1 | | 2117 | 6111 | 0 - 1 - | 02 4 2 | 2232 | .07.0 | 0 14 4 | 1 . 9 1 | 10.5 | 1.77 | **** | | . 121 | 1976 | ***3 | 1974 | | 34.5 | 3111 | 24 | - 1 - |
| | | 32 12 | 011 | 0.413 | 1970 | 0111 | 2111 | 0.79.7 | > ● 1 € | - 12 f s | 517.€ | 4.1 | | * D * C | 30.02 | 1015 | 5.5 2.6 | 1071 | 000. | 6414 | 2 + 5 c | 1 * |
| , 04 | | 0 - 8 3 | 2110 | 3959 | 04/ | . 909 | 3171 | 2055 | 4833 | 4423 | 0 0 7 0 1 | 1 .43/ | 7 4 7 3 9 | 1 1 1 1 | 7 | 5311 | 1/11 | 4170 | 1, 11 | 8 16 : | 1/- | ; |
| 11 0 | (4) | 1141 | 1111 | 1474 | 0 | 1111 | | 202 | 3773 | 1 1077 | 11 1242 | 5 05 . | 1 1.7. | 4 4 6 5 7 1 | 2 4744 | 1 11 | 4 14 74 " | 011 | 1 1744 | 11111 | 1 8450 | 1 8 4 |
| 17 34 | | 1111 | 4313 | 5281 | 0 • • 2 | 0475 | 13.1 | 1050 | . 7 | 1 4454 | . 0 1 164 | 1 110 | 1 10 2 | * * * * * * | 1.1.25 | | 12 4474 | 1.6451 | 1 1 1 | 2 1999 | 1.24 | * * |
| . 1 0 | | 1 34 % | 1 70+1 | 1 7031 | 1114 | 610 | 8370 | 1 1144 | 4 14 15 | 0 0017 | 7.9292 | 4 4 7 7 7 | 5 245 | 7 54.04 | . 1014 | 5 0 111 | 4 4111 | 1 (// | 1 7117 | 7 77111 | 10.1 | |
| 1 04 | 1 1114 | * 1 . 1 | | 1 2 96 2 | B137 | 1'0' | 4 1121 | 9 4 6 | 4 2011 | 1 2044 | - 112 | | 1 11 1 | . 111. | 1 224 | 1 #31; | . 1 13 | 8 4 1 9 4 | 2 36 2 | 1 4 5 5 | **** | |
| 0 | | 1101 | 1 1442 | * 144 | 0111 | 18-2 | 1 1560 | 4574 | 1 1 6 6 7 | 1 7524 | 1 29.4 | 1 6111 | 1 14 1 | . 1151 | 3 15 34 | 1 2 1 4 5 | | 8 1790 | 1 4975 | 1 248 | **** | 11 |
| 10 | | 110: | 14.12 | 1010 | 15.4 | 1000 | 1 1/13 | 1/44 | 1 746, | 2.2/10 | 6 8111 | 7 **** | 1 1011 | 7 1177 | 1 4444 | 7 4431 | . 3.14 | 1 -274 | 4444 | 1124 | *1.1 | 10 |
| 1 - 19 | 1 111 | 20.0 | 1144 | 4 1 FG | 2 6 8 1 | 1 . 1 . | 0 6 6 1 | 110 | 794) | 1 10 | 4.5 1 | | 1 4574 | 1 | . 5957 | | 51 | | 1111 | | 144. | . 1 |
| 14 | | (1) | 14757 | | 1.21 | 1210 | 3072 | 4620 | 1 447 | | 9149 | 1701 | 1 4414 | 1 / 554 | 4 4 7 4 9 | 1.11 | . 4215 | 1111 | 1 | | 1411 | 1.5 |
| 11 1 | | 2.1 | 2001 | **** | -279 | +317 | 7672 | 1244 | 1 4744 | 1112 | **** | 170 | 4 3 1 0 | 3.11 | 1 0 4 6 5 | 1 / 544 | 1 1011 | 4 1 1 4 | 7115 | 7500 | . 34 | |
| 171 12 | C * 44 | 2227 | | 1047 | 2013 | .012 | . 1 7 5 1 | 1161 | | 5004 | 4402 | 1 1154 | 6264 | 1.3254 | . 1101 | 1 | 74/4 | 41.7 | 140. | | . 5 6 8 | |
| 23 13 | | | (131 | 1100 | 1967 | 3317 | . 1114 | **** | 4284 5930 | 1.1732 | 417 | 1111 | 1527 | 4445 | 1 4114 | 9050 | 3 4 5 1 | 1150 | 10.1 | 4 | 1164 | 6. |
| 75 1 | | 1211 | 1850 | 1774 | 1000 | 1980 | 1011 | 1647 | 111, | 2574 | | 3111 | 10.00 | 101 | 4314 | 3/11 | +50: | 4446 | 111 | 7 . | 1.3 | *; |
| 27 15 | | 1147 | 1377 | 1715 | 1029 | 1010 | 1033 | 1444 | 2341 | 1113 | 7154 | | 7.6 4.7 | - 1 1 1 | | 111 | 5 05 | | 744 | . 5.45 | 2711 | 1.0 |
| 24 15 | | 111 | 1947 | 1165 | 1114 | .0540 | . 1021 | . 2878 | 4011 | 1610 | P. 15 | 4135 | 1147 | 102 | 7416 | * 11 3 | 1114 | 7073 | 1740 | 0 *** | 0.4. | 2.7 |
| 10 | | . يُعَوَّا. | 1,00 | | .004 | .1014 | -1-10 | .2017 | | .3273 | | 1111 | 3063 | 1557 | * | 1333 | · c | 3447 | . 39.3.9 | 113 | 0107 | 15 - |
| 11 12 | 2 0144 | 1474 | .04 • 1 | 1170 | 0.615 | . [55 6 7 | . 0127 | 1031 | 120. | . 1841 | +224 | 4246 | 3111 | +25 B | 42.44 | 1115 | 9152 | | 2145 | | 5 6 7 6 | 23 |
| 33 :10 | | 1074 | .0114 | 1107 | .0550 | 1038 | .0114 | .1011 | 11.71 | 2123 | 1.47 | 1162 | 2795 | 154.1 | 3.19 | 1925 | 1.00 | 1755 | . 254 | 1 - 10 | 3111 | 1 |
| 35 | | | 0917 | . 2017 | 0 - 4 | 0700 | 1100 | . 1440 | 1003 | 3317 | 23.3 | . 834 | 1174 | 1367 | 3 * 1 1 | 6 11 | | 1000 | 1434 | 1181 | 9450 | 2 |
| 35 19 | | 6.56.5 | . 0592 | 0 • • • | .04+0 | .0011 | . 1 5 5 9 | -1042 | . 1139 | 3743 | 1 * ** | 2371 | . * * , | . 497 | 8*41 | 1-34 | | 1541 | 1000 | 34.9 | 0.112 | 1 |
| 10 20 | | 144 | 0444 | .0411 | .0141 | .0474 | .0194 | 1129 | 1354 | 1111 | 1111 | 2011 | 110 | 4157 | 1115 | 1478 | 1714 | /55/ | 2121 | 2111 | 0 \$ 10 | |
| 10 21 | | J • • | 0588 | .0421 | 0 . 7 . | 031 | 0335 | .0400 | 0112 | 10.5 | 7435 | 4 9 1 1 | 4172 | 3111 | 7-11 | 2/43 | 4 - 10 | 1988 | 7611 | | 0 1 4 4 | 2. |
| 1 59 24 | | (+ 1 + | .021 | . 3 12 5 | 0.10 | .0411 | 0 • 4 4 | 3 4 1 2 | 604 * | .2111 | **** | 22.5 | | 9949 | **** | 251 | 5576 | 1121 | 7622 | C + 0 7 | 3.1. | 3 |
| 14 . 17 | | 0146 | .0140 | 0110 | .0111 | 0404 | 2500 | 1070 * | 1039 | 2277 | 1714 | 2726 | 2330 | 7921 | 2452 | 1951 | 1101 | 3443 | 1.74 | .0754 | 2331 | 1. |
| 1 2 25 | 1 .0045 | 0.17 | .0117 | . 1 194 | 017. | 0.11 | 0 - 1 - | . 6144 | 1592 | . 2919 | 1071 | 1451 | 134 | 11. | /111 | | 1110 | .0710 | 3863 | 0.0 | 4404 | 6 * |
| *1 -21 | | 0710 | .0544 | 1500 | 01.1 | 0301 | 01.1 | . 0 1 8 0 | 1.04 | . 10 10 | 1101 | (0.3) | 117 | 2* 15 | 1111 | 21.73 | • • • • • | 0 3 4 3 | 3+ + ! | 944 | 3134 | c • |
| | | 00 1 | .0114 | . 0876 | .0241 | 0 4 6 4 | . 307 6 | 0101 | 1974 | . 2 - 2 8 | / 493 | 2397 | 101 | 1.0 | 1561 | /111 | 1921 | 2113 | 36.13 | 2.47 | .0140 | |
| 46 | .0004 | 0244 | .6114 | .0250 | . 3191 | . 5201 | 2000 | 0010 | 2230 | .0000 | 1.11 | 1 * * * | 1710 | 11.0 | 104* | 5-10 | 0000 | 0117 | ** | 0 - 0 0 | 3463 | 6. |
| ** 24 | | 0 - 5 1 | 040 | .02*1 | 0.00 | .0111 | . 0000 | 00.0 | 12011 | .0011 | 1110 | 1000 | 2300 | 9141 | 1174 | 2573 | 2000 | 6114 | . * 4 * | 0704 | 3000 | 6.1 |
| ;; | | 0104 | .0011 | 0744 | .0/44 | .0-11 | 0000 | . 1 1 6 3 | 3194 | .0904 | * *** | 17.14 | 1912 | 1011 | 3000 | 18.2 | 0000 | . 10/9 | 2. * 1 | 1110 | . 8000 | 6. |
| \$0 | .011 | 0112 | .0000 | .0110 | .0117 | .0787 | .0000 | .0144 . | 07 *1 | 1303 | 1067 | 2555 | 2.44 | 3134 | . 0000 | .1114 | 1.000 | . 1551 | 1926 | 1874 | 3000 | L * |
| 33 23 | | 0717 | .00.5 | .0006 | 2011 | .0101 | 00-1 | . 3041 | 0010 | .1704 | 2400 | 1001 | 2207 | 1701 | 3400 | 0030 | 1917 | 0 443 * | .1344 | 8441 | 2047 | 6.3 |
| 11 21 | | 0000 | 0000 | . 0000 | 31/4 | .041 | .0102 | .0000 | 0000 | 0000 | 0117 | 14 1 | 0.0 | | 1:55 | . • • • | 1124 | .0102 | 1140 | 0000 | 0111 | |
| 34 30 | | 0000 | 0100 | .0000 | 3142 | .0000 | . 11. | 0052 | 0000 | 0000 | .0271 | 15.42 | 0000 | | . 7 | 0030 | 0000 | .0000 | . 310+ | 0341 | 0097 | |
| 34 .10 | | .0000 | .1017 | 1300 | .0000 | .0000 | .0000 | .0144 | -0006 | 1313 | 0000 | 0 11 | .0000 | .0000 | 0419 | 0000 | 0000 | .0000 | .0000 | 1001 | 0000 | |
| 11 | | .0. | .0333 | . 041 | .0011 | .0000 | . 0000 | .0000 | 1717 | . 2023 | 0000 | 0040 | 0000 | .0006 | . 0000 | 1003 | .0000 | .0000 | 2000 | . 01.1 | 011. | o o |
| 58 . 32 | .0000 | .0000 | .0000 | . 4000 | 0000 | 0000 | . 0000 | . 9000 | 1124 | .0000 | 0/10 | 0000 | . 0 . 5 . | . 0000 | .0000 | -5631 | . 0000 | 0000 | .0000 | 0000 | 0000 | C • |
| 40 13 | | 0000 | .0000 | .0000 | .0141 | 0000 | .0008 | .0110 | .0000 | .0000 | 0000 | 0000 | .0000 | . 3000 | . 0006 | . 0000 | .0000 | .0000 | .0000 | . 5000 | .0000 | 0 |
| | | | .0000 | | .0127 | - 0000 | . 0000 | . 0100 | .0000 | .0000 | 0000 | | .3000 | . 5000 | . 5000 | . 0000 | . 0000 | .0000 | . 3000 | . 8000 | | |
| (Da +44 | 3.7335 | 7 .044 | 11.1984 | 12.7001 | 1 3411 | 9145 | 10.9149 | (5,5779 | *4.5277 | 17,7520 | 17.4018 | | 1145 | 12 0241 | | 14. 11.1 | 18 0448 | 41 0901 | 26 3732 | 18 9047 | 11.5039 | 13 714 |
| TOTAL DE | 7,7289 | 10 9432 | 14 1111 | 14.2551 | 10.1421 | 10 1211 | 11.7514 | 212 | 34.0451 | 12 121 | 15 1977 | 10 -/ 00 | 14.0441 | 1142 | 10.4781 | 11 5413 | 15.1114 | 137 | 10.4/05 | 17 1914 | 11.1410 | 14.854 |
| 4+84 1 | 0 9751 | 7. 90 6 7 | | . 1101 | 7 4912 | 1.2424 | 4. 4427 | 4.0199 | 0 1174 | 1.1/20 | 210 | | 9 1361 | 1.2151 | 15.1201 | 017 | | | | 4. 1911 | 10.1997 | 1.01 |
| | | | | · | | - | | | | | | | | | | | | | | | | |



served by the OWS "Weather Reporter" in December 1959

Wave Records Obtained by the OWS "Weather Reporter"

| 947 - Out | D41 HOUS | D41 HC -4 | 541 HOUR | LA1 7(3.4 | Day Hous | Dat HUUR | DAT HOUS | DAT HUND | Dat House | C41 *4. # | (41 -4 1 | (a + m) up | CA+ HOU4 | DAT HOUR | 041 4004 | D&+ HE U# | 64+ +0v# | Da+ =/100 | [A+ +OL# | UAT 1001 | C44 No. | |
|-----------|-------------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|--------------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|----------|---------------------|
| 14 4 | 11 | 11 17 | 18 15 | 14 14 | 11 /1 | 14 3 | 19 1 | 19 6 | 10 4 | 1 4 1/ | 19 15 | | 1 1 / 1 | 10 2 | | 2 12 | 70 10 | 21 0 | 21 • | 21 12 | 21 10 | - 14t. |
| .0614 | .0512 | 3474 | .co.ti | 0+15 | 0101 | 0111 | .0074 | . 3114 | .0024 | 3511 | 1.17 | 1.64 | 711 | 0141 | 1741 | 2110 | 0114 | .0140 | .1111 | 0110 | 0111 | 1 36 • |
| . 1571 | .1255 | 0100 | 3141 | .1041 | .0411 | .0415 | 11.2 | .0119 | .0510 | .9540 | 1 A 4 | 0171 | 0.08 | 0991 | 4+/4 | 0524 | 0141 | .0943 | 1193 | 1044 | 0101 | 2 011 |
| . 1041 | .1194 | .0/3/ | 0740 | .0334 | .01.4 | .0414 | .0447 | 2.14 | .0100 | 0201 | 1, 1 | 3 114 9 | 0 . 70 | 0.5.15 | 3075 | 0.54 | .0167 | 0444 | 6155 | 0744 | 0236 | . 027 |
| . 1941 | .0010 | . 100 | . 1.3 | 1001 | .0 - 13 | 1114 | 0110 | . 1011 | . 0 1 1 1 | .0174 | 3.17 | 0 1 1 0 3 1 2 6 | 0 - 2 2 | 0449 | 1041 | 0111 | .0114 | .0021 | . 1916 | 3144 | -0202 | 1 013 |
| .0415 | 0710 | . 31 11 | 0 4 8 7 | 0414 | 0110 | 0101 | . 0 144 | .0441 | .0429 | .0042 | 10. | 0211 | 012 | 0. ** | 2/17 | 0111 | .0700 | 3.41 | 3 - 7 | 0 - 1 1 | 6334 | 231 |
| .0667 | 0114 | .0.50 | 5102 | . 0 4 4 7 | .0112 | . 0 100 | 0.41 | 0 • • • | .3274 | 001 | 0717 | 0117 | 0111 | 0141 | 1111 | 0:20 | .0404 | 0015 | 1501 | 0111 | 0014 | 1 210 |
| 1.3193 | 8361 | .1374 | 1011 | . 1 00 4 | .0646 | .1211 | .1124 | . 1195 | . 1913 | .0-12 | 0 1 24 | 0107 | 0417 | 16.40 | 3.50 | 0044 | . 1161 | 1 . 7 . | | . 3749 . | . 93+4 | 11 |
| 1.8748 * | 1.4847 | 1.8450 | 1 1448 | 1 1110 | 1-040 | 4114 | 7467 | 1114 | 1.0001 | 12.4 | 2114 | 1041 | 9193 | 1044 | 3000 | 1041 | 1 2715 | 2 1781 | 4 . 1 . 1 | 2 8214 | 1111 | 12 24 7 |
| 2 7317 | 7 2233 | 1.6778 | 1 1903 | 2 2444 | 1 4044 | 1 2344 | B343 | . 34.4 | | . 34 i 4 | 1 (1.1) | 2644 | 2.5155 | 2 1110 | 7 4213 | 4143 | 7 3034 | 1.0100 | | 1 57.2 | 1101 | 11 072 |
| 3.2742 | 1 **** | 74.45 | *0 * 4 | 22.00 | 3 | 0.124 | ***) | . 161 | . 1 / 1 4 | 1 251 | 1 19.0 | 2 / 110 | . 1917 | 1 3010 | 1 1114 | 1 1/1/ | 1.4947 | 1.1071 | 2 2047 | 2 9239 | 1 64 8 3 | 13 641 |
| 2.5012 | 1.041 | *>>> | 12.4 | 1734 | **** | 1041 | 3301 | 1.0809 | | 1 1870 | 1 1314 | 1. 1.17 | | 1 1434 | | 1011 | .00 | 1.1241 | 1 1114 | 1.840 | 0131 | 10 241 |
| 1.1986 | 1111 | ••• | 6376 | 112 | -9001 | 1.1.40 | . 6747 | 1.2765 | . 1844 | 1 012 | 7.6 | 1 10 40 | 1167 | 1713 | 1 6575 | 1 4570 | .4744 | 1110 | 1.2472 | 1.01.4 | 9911 | 10 100 |
| . 8866 | 4/4/ | . 2004 | 3671 | 1171 | . 5 4 4 1 | 1851 | 1.1010 | 1.20.5 | 1796 | 6267 | 6 ' • • | 4.04 | 404 | 3/27 | 1203 | 1117 | | .0.1 | 1.5217 | . 7233 | + 7 1 a | .04 |
| | . * * * * . | 1: | 2811 | -1529 | . 9810 | | . 4213 | 1 00.2 | . 6212 | 7 8 0 | 5/14 | 20.3 | 3730 | 221- | 1001 | 7.33 | 0 | 2 6 0 6 | 5716 | 1443 | 1001 | 21 |
| . 2440 | 7585 | 1546 | 1998 | . 03-1 | 1.5124 | 3014 | . 75 60 | 1211 | 1461 | 1715 | 111- | 1174 | -744 | 2123 | 1.11 | | . 1244 | .2458* | . 1715 | . 2031 | 2444 | 11 114 |
| . 1004 . | 4 4 | 4541 | 104 | . 14 • 1 | . 4 1 1 1 | 2321 | . 2 94.1 | . 10 4 1 | 1577 | 206 | 1152 | 2.15 | 1110 | 2312 | 1.0132 | 4443 | . 2454 | 1919 | . 1011 | . 3117 | 2214 | |
| . 10/3 | 1000 | 1760 | 6947 | 3513 | 1333 | .2479 | -1074 | . 2044 | 2010 | 1000 | 1413 | 12.47 | 2731 | 1104 | . 71 4 7 | 20/0 | 1333 | 7444 | .017 | .2110 | 1307 | 7. 111 |
| . 1750 | 2100 | 2975 | 0 | 2000 | .1101 | 2410 | 2.10 | . 2519 | . 1424 | C 7 0 C | 1 4 4 5 | 1031 | 1117 | 167 | . 1001 | 2 445 | 0014 | 1 ** 3 | 1000 | . 1912 | .0499 | 75 155 |
| 3003 | .0446 | 0-10 | 2715 | 1113 | .1311 | . 1504 | .1789 | 2111 | .1747 | .1004 | 1043 | 1334 | 1382 | 1104 | 2171 | 1101 | .0441 | 1001 | . 2292 | 1136 | .0101 | 77 .150 |
| . 1710 | .0924 | 0 | 117 | . 2914 | .0874 | . 1244 | .22.4 | . 1 4 1 2 | -1242 | . 0 . 1 | 0454 | 17.4 | 1261 | -1172 | 1715 | 7044 | . 0 6 4 5 | 1177 | . 1978 | .0842 | .0172 | 24 161 |
| 3111 | .0110 | 347 | .2304 | 3711 | .0101 | 1300 | . 200) | 12011. | .0976 | . 2004 | .0950 | 9778 | 1224 | 0433 | 2119 | 1167 | .1163 | 1011 | .2016 | 1446 | .0341 | 11 172 |
| 11919 | 1084 | 3620 | 1352 | 0507 | . 1090 | 1100 | . 1 *** | . 1548 | . 1 9 0 5 | 0011 | 3415 | 0444 | 2500 | 0 *** | 20 11 | . 3947 | .0914 | 11112 | . 4729 | 1201 | .0244 | 17 171 |
| 1974 | . + + 4 0 1 | 3 4 10 | 1011 | .1146 | .0011 | .1530 | . 2004 | . 1 - 2 0 | .1750 | .0919 | .0607 | .0046 | 2453 | .0.76 | . 10-1 | 3717 | .011. | .3442 | .1011 | .0509 | .0144 | 11 - 111 |
| 70** | 1044 | 2117 | . 2130 | . 1920 | . 0400 | . 1170 | . 1914 | | .0847 | .0111 | 0111 | . 08 51 | .05+1 | 0142 | 1 * * * | 0816 | . 0516 | .0404 | 1110 | .0411 | .0167 | 15 .194 |
| .2526 | .0117 | 2710 | 1811 | 1114 | .0698 | -1521 | . 1 4 1 5 | .1.51 | .0110 | .01.3 | 0904 | 0110 | 2714 | 0409 | . 1997 | 1740 | . 0411 | .0100 | .1047 | . 1243 | .0104 | 10 .700 |
| . 7014 | . 0 *** | -2341 | 3301 | 0 5 5 7 | .0000 | . 1690 | . 1244 | .2244 | .0784 | .0.44 | 4** | 09/1 | 10.0 | 9 8 1 7 | 1044 | 1210 | 0745 | . 0 8 7 6 | .0454 | . 1862 | 0395 | 14 .211 |
| .1022 | . 0 5 5 4 | 3494 | 1074 | 0111 | .0111 | .2303. | 11124 | 1177 | .0145 | .0144 | .0111 | .0530 | 1230 | 1133 | .1711 | .0814 | . 5610. | .1202 | - 1197 | .0484 | .0100 | 10 .21 ! 40 .12. |
| 1111 | 0194 | .5181 | 1074 | 0.1 | .0101 | 34/3 | . 1199 | .0951 | .0749 | .0314 | 0314 | 0110 | .0421 | .1104 | . 1516 | 0565 | .0299 | 0744 | . 1210 | .0111 | .02+2 | *1 774 |
| 0441 | 0404 | .3104 | 0010 | . 0 6 7 5 | .0944 | .0414 | .0879 | .0011 | .0242 | .0144 | .02.74 | . 2641 | 0144 | 0414 | . 1104 | 0613 | .0410 | .0112 | .0541 | 1014 | .0211 | 11 .719 |
| . 6 18 2 | .0199 | 31.0 | 1074 | 0127 | .0171 | 0127 | .0806 | .010+ | .0459 | .0244 | 0141 | .0831 | 3218 | 0841 | 1474 | . 1210 | .0152 | . 0 1 | .0117 | 1447 | .0110 | 44 /44 |
| 2000 | 0 + 0 2 | .0103 | 0 0 7 0 | 074 | .0121 | .041. | .0409 | 1244 | .0017 | .0011 | 0177 | .0763 | 2010 | 0411 | .0-10 | 1333 | .0271 | .0134 | .0147 | . 3901 | .0111 | 45 /50 |
| .0184 | 8764 | .0001 | 0.2 4 1 | . 2984 | 0411 | .:210 | .0413 | 1764 | .0370 | . 30 6 3 | 0 141 | 0996 | 0.175 | . 0340 | 6115 | 0411 | . 02 56 | .0000 | . 0243 | .0411 | .0191 | 4 241 |
| . 2 3 | 0667 | .0000 | 0104 | . 1574 | 0411 | . 1112 | .0000 | .3243 | .0107 | .0214 | 0000 | .041 | 6191 | .0117 | .0000 | .1110 | .0110 | .0071 | .0101 | .0964 | .00** | 44 .247 |
| .1924 | 1274 | . 2000 | 0111 | .0540 | .0000 | .0720 | .0411 | . 6000 | .0492 | 3414 | 0011 | . 0 1 11 | .0326 | .0102 | . 6907 | .1351. | .0000 | . 9771 | .11.4 | .0111 | 0110 | 10 .278 |
| . 1143 * | 0111 | .0047 | 0271 | .0440 | .0112 | .0845 | .0628 | 0000 | .0444 | 0110 | .0111 | .0137 | 0001 | .0144 | .6249 | 0467 | .0000 | .0762 | -1174 | .0000 | .0225 | 21 283 |
| 0611. | .0000 | .0155 | .0010 | .0217 | . 1100 | .0103 | . 0 1 7) | .0414 | . 0141 | .01 • 7 | .02.0 | .0001 | 001. | .0713 | C111 | 0184 | .0155 | -0124 | .0000 | .0000 | .0111 | 31 /23 |
| .0104 | . 0041 | .0041 | .0347 | .0011 | . 1554 | . 0000 | .0208 | .1000 | .0000 | .0001 | .0224 | .0000 | 0/14 | 0101 | £000 | 0112 | .0000 | .0000 | .0000 | . 0000 | .0154 | 100 |
| .0000 | .1801 | .0000 | 0000 | .0000 | . 0000 | .0000 | .0000 | 0988 | .0000 | .0000 | 0217 | .0000 | .0111 | . 0000 | . 6999 | 0000 | .0072 | .0000 | .0000 | .0111 | .0000 | 14 .313 |
| .0000 | .0419 | 0114 | 0048 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | .0000 | 15000 | 0000 | .0410 | . 2000 | .0045 | .0186 | .0000 | 37 . 317 |
| .0000 | 0000 | .0000 | .0000 | . 0000 | .0000 | .0131 | .0000 | .0000 | .0000 | .0000 | ,0000 | .0344 | 0000 | . 0000 | . \$000 | . 0000 | .0000 | .0000 | .0000 | .0000 | .0000 | 36 .322 |
| .0000 | . 5000 | .0000 | .0000 | .0000 | .0000 | 0000 | .0478 | .0000 | .0000 | .0000 | .0000 | .0604 | .0000 | .0000 | . \$000 | . 0000 | .0000 | .0000 | .0000 | .0290 | .0000 | 10 .111 |
| 24.5752 | 18 1042 | 11.3030 | 13.7080 | 17.0540 | 15.4391 | 14.9634 | 14.4102 | 14.2571 | 12.4/25 | 11.4040 | 11.1350 | 14.5750 | 19.8910 | 10.1050 | 22.7657 | 17.9465 | 15.1225 | 14.9414 | 18.0704 | 21.4041 . | 8. 1583 | LOG . V48. |
| 10.6165 | 17 3936 | 13.5670 | 14 4543 | 10.3184 | 15.9193 | 18.4747 | 15.4455 | 16.1280 | 218 | 11.5091 | 15.4475 | 13.7717 | 17 8397 | 14-1817 | 14.0170 | 18.9555 | 15.4571 | 14.4441 | 21.1924 | 20.9397 | 11.5641 | 114.HGT. |
| 1/1 | 4. 1141 | 10.1997 | 7.0913 | 4.7380 | 4 - 517 | 1.2713 | 1.4180 | 7.4121 | 4.1024 | 1.0311 | 8.8761 | 8.5866 | 7.4819 | 9.1101 | 8. 1 47 | 4.0141 | 9,194 | V. 6037 | 7.4140 | 1.0032 | 8.8879 | AVEA. |
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